

ABSTRACT

FAST RESTORATION IN OPTICAL MESH NETWORK

5 A wavelength division multiplexed optical network has a restoration
process to re-route one or more of the wavelengths, by dynamically
determining possible restoration routes, and re-routing each wavelength
along a chosen one of the possible restoration routes. A distributed
dynamic search for restoration routes down to the optical layer, for
wavelengths, gives faster and more scalable restoration than reconfiguring
10 routing tables and enables much better utilisation of bandwidth than using
predetermined restoration paths.